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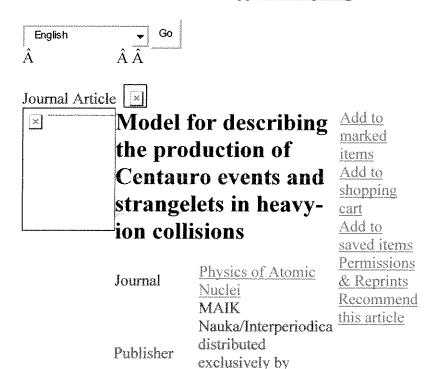
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# Elementary Particles and Fields Theory

Model for describing the production of Centauro events and strangelets in heavy-ion collisions

S. A. Sadovsky<sup>1</sup>Â , Yu. V. Kharlov<sup>1</sup>, A. L. S. Angelis<sup>2</sup>, E. GÅ,adysz-DziaduÅ<sup>3</sup>, V. L. Korotkikh<sup>4</sup>, G. Mavromanolakis<sup>2</sup> and A. D. Panagiotou<sup>2</sup>

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Abstract Â A phenomenological model for describing the production of Centauro events in relativistic heavy-ion collisions is discussed. The model provides quantitative predictions for kinematical variables, for the baryon number, and for the masses of a Centauro fireball and of its decay products. A Centauro fireball decays predominantly into nucleons, strange hyperons, and possibly strangelets. Centauro events in Pb + Pb collisions at the LHC energy are simulated for the CASTOR detector. The signatures of these events are discussed in detail.

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S. A. Sadovsky Email: sadovsky@mx.ihep.su

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#### **ELEMENTARY PARTICLES AND FIE** 墨斯斯特斯

#### Model for Describing the Production of Centauro in Heavy-Ion Collisions

S. A. Sudovsky<sup>34</sup>\*, Yu. V. Kharlov<sup>4</sup><sup>1</sup>, A. L. S. Angelis<sup>12</sup><sup>1</sup>, V. L. Korotkikh\*i, G. May romanolakiv, and A.

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#### INTRODUCTION

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